

Comparisons of Job Characteristics

Focus Occupation: Maintenance and Repair Workers, General (49-9042)

Associated Occupation: Farm Equipment Mechanics and Service Technicians (49-3041)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 70

Focus Occupation: Maintenance and Repair Workers, General (49-9042)

Associated Occupation: Farm Equipment Mechanics and Service Technicians (49-3041)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Mechanical	6.8	19.7	19.3	0	Current knowledge level may be sufficient
Physics	4.3	9.1	8.8	0	Current knowledge level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 87

Focus Occupation: Maintenance and Repair Workers, General (49-9042)

Associated Occupation: Farm Equipment Mechanics and Service Technicians (49-3041)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Repairing	3.4	14.3	12.3	<	A higher skill level may be required
Equipment Maintenance	3.5	13.6	12.7	0	Current skill level may be sufficient
Troubleshooting	4.5	12.9	10.0	<<	Extensive development of skills in this area may be required
Quality Control Analysis	5.9	11.6	9.8	<	A higher skill level may be required
Operation Monitoring	6.6	11.0	8.4	<<	Extensive development of skills in this area may be required
Operation and Control	5.4	10.7	7.6	<<	Extensive development of skills in this area may be required
Equipment Selection	3.3	10.0	9.5	0	Current skill level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities

Similarity of Focus Occupation to Associated Occupation: 78

Focus Occupation: Maintenance and Repair Workers, General (49-9042)

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Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Control Precision	6.6	13.6	9.5	<<	Extensive improvement in abilities may be required
Multilimb Coordination	6.0	13.3	11.8	<	Some improvement in abilities may be required
Arm-Hand Steadiness	6.8	12.8	10.1	<	Some improvement in abilities may be required
Manual Dexterity	6.5	12.8	11.4	<	Some improvement in abilities may be required
Finger Dexterity	7.6	12.6	9.4	<<	Extensive improvement in abilities may be required
Reaction Time	4.8	11.6	6.2	<<	Extensive improvement in abilities may be required
Visualization	7.5	11.1	11.0	0	Current ability level may be sufficient
Extent Flexibility	4.8	11.0	9.2	<	Some improvement in abilities may be required
Hearing Sensitivity	5.6	11.0	7.0	<<	Extensive improvement in abilities may be required
Response Orientation	4.0	9.5	3.4	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 88

Focus Occupation: Maintenance and Repair Workers, General (49-9042)

Associated Occupation: Farm Equipment Mechanics and Service Technicians (49-3041)

Work Activities	Exclusivity of Activity
Adhere to safety procedures	12
Adjust or set mechanical controls or components	69
Assemble and install pipe sections, fittings, or plumbing fixtures	71
Assemble, dismantle, or reassemble equipment or machinery	70
Conduct tests to locate mechanical system malfunction	71
Determine installation, service, or repair needed	58
Diagnose mechanical problems in machinery or equipment	65
Fabricate, assemble, or disassemble manufactured products by hand	11
Inspect machinery or equipment to determine adjustments or repairs needed	42
Lubricate machinery, equipment, or parts	59
Maintain repair records	65
Maintain welding machines or equipment	70
Move or fit heavy objects	8

Observe or listen to machinery or equipment operation to detect malfunctions	81
Operate crane in construction, manufacturing or repair setting	76
Perform safety inspections in industrial, manufacturing or repair setting	32
Read blueprints	10
Read schematics	34
Read work order, instructions, formulas, or processing charts	9
Repair or replace electrical wiring, circuits, fixtures, or equipment	49
Repair or replace malfunctioning or worn mechanical components	62
Set up and operate variety of machine tools	62
Test electrical/electronic wiring, equipment, systems or fixtures	54
Test mechanical products or equipment	56
Understand service or repair manuals	40
Understand technical operating, service or repair manuals	6
Use acetylene welding/cutting torch	54
Use arc welding equipment	62
Use basic plumbing techniques	72
Use combination welding procedures	68
Use electrical or electronic test devices or equipment	40
Use hand or power tools	2
Use knowledge of metric system	39
Use knowledge of welding filler rod types	75
Use machine tools in installation, maintenance, or repair	72
Use precision measuring devices in mechanical repair work	61
Use soldering equipment	44
Use voltmeter, ammeter, or ohmmeter	52
Weld together metal parts, components, or structures	54

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: n/a

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Tools and Technologies

Exclusivity

Tools and technology data is unavailable for one or both occupations.

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.